South Carolina **Grades PreK-12 Process Standards**

FlyBy Math™ Alignment
Mathematics Curriculum Standards
Process Standards

Problem Solving Standard Instructional programs from prekindergarten through grade 12 should enable all students to accomplish the following:	
- Solve problems that arise in mathematics and in other contexts.	***FlyBy Math*™ Activities** --Apply mathematics to predict and analyze aircraft conflicts and validate through experimentation.
- Apply and adapt a variety of appropriate strategies to solve problems.	--Use tables, graphs, and equations to solve aircraft conflict problems.
Communication Standard Instructional programs from prekindergarten through grade 12 should enable all students to accomplish the following:	
- Communicate their mathematical thinking coherently and clearly to peers, teachers, and others.	***FlyBy Math*™ Activities** --Predict outcomes and explain results of mathematical models and experiments.
- Use the language of mathematics to express mathematical ideas precisely.	--Explain and justify solutions regarding the motion of two airplanes using the results of plotting points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system. --Predict outcomes and explain results of mathematical models and experiments.
Connections Standard Instructional programs from prekindergarten through grade 12 should enable all students to accomplish the following:	
- Recognize and apply mathematics in contexts outside of mathematics.	***FlyBy Math*™ Activities** --Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
Representation Standard Instructional programs from prekindergarten through grade 12 should enable all students to accomplish the following:	
- Select, apply, and translate among mathematical representations to solve problems.	***FlyBy Math*™ Activities** --Choose among tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.
- Use representations to model and interpret physical, social, and mathematical phenomena.	--Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.